

Digital Entertainer Model EVA700 User Manual



NETGEAR

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Customer Support

Refer to the Support Information Card that shipped with your NETGEAR Digital Entertainer EVA700.

World Wide Web

NETGEAR maintains a World Wide Web home page that you can access at the universal resource locator (URL) <http://www.netgear.com>.

A direct connection to the Internet and a Web browser such as Internet Explorer or Netscape are required.

Product and Publication Details

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About This Manual

The *Digital Entertainer Model EVA700 User Manual* describes how to install, configure, and troubleshoot the NETGEAR® digital entertainer. The information in this manual is intended for readers with basic to intermediate computer and Internet skills.


Conventions, Formats, and Scope


The conventions, formats, and scope of this manual are described in the following sections.


- **Typographical conventions.** This manual uses the following typographical conventions.

<i>Italics</i>	Emphasis, books, CDs, URL names
Bold	User input
Monospace	Screen text, file and server names, extensions, commands, IP addresses

- **Formats.** This manual uses the following formats to highlight special messages.

	Note: This format is used to highlight information of importance or special interest.
---	--

	Tip: This format is used to highlight a procedure that will save time or resources.
---	--

	Warning: Ignoring this type of note may result in a malfunction or damage to the equipment.
---	--



Danger: This is a safety warning. Failure to take heed of this notice may result in personal injury or death.

- **Scope.** This manual is written for the digital entertainer according to these specifications.

Product version	NETGEAR Digital Entertainer EVA700
Manual publication date	May 2006

Product updates are available on the NETGEAR website at <http://kbserver.netgear.com/products/EVA700.asp>.

How to Print the PDF of This Manual

A printed manual ships with this product. This manual is also provided in PDF format on the NETGEAR CD. You can print a chapter, or the full manual, according to your needs. Your computer must have the free Adobe Acrobat Reader installed in order to view and print PDF files. The Acrobat Reader is available on the Adobe website at <http://www.adobe.com>.

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 - Click the PDF of This Chapter link at the top right of any page in the chapter that you want to print. The PDF version of the chapter you were viewing opens in a browser window.
 - Click the print icon in the upper left of the window.



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 - Click the Complete PDF Manual link at the top left of any page in the manual. The PDF version of the manual opens in a browser window.

- Click the print icon in the upper left of the window.



Tip: If your printer supports printing two pages on a single sheet of paper, you can save paper and toner by selecting this feature.

Chapter 1

Installing Your Digital Entertainer

This chapter describes how to install the NETGEAR Digital Entertainer EVA700. For information about product features, see the NETGEAR website at <http://www.netgear.com>.

Package Contents

The product package should contain the following items:

- NETGEAR Digital Entertainer EVA700.
- Remote control (2AA batteries included).
- Power cable, localized to country of sale.
- Category 5 (CAT5) Ethernet cable.
- Composite Video cable and Audio cable.
- NETGEAR CD, including:
 - Media server software.
 - This manual.
 - The Installation Guide.
 - Application Notes and other helpful information.
- Warranty and Support Information card.

If any of the parts are incorrect, missing, or damaged, contact your NETGEAR dealer. Keep the carton, including the original packing materials, in case you need to return the digital entertainer for repair.

Front Panel

The front panel of the digital entertainer has an LED that shows when it is turned on. It also has a USB port and a jack to connect headphones.



Figure 1-1

Rear Panel

The rear panel of the digital entertainer is shown in the following illustration:

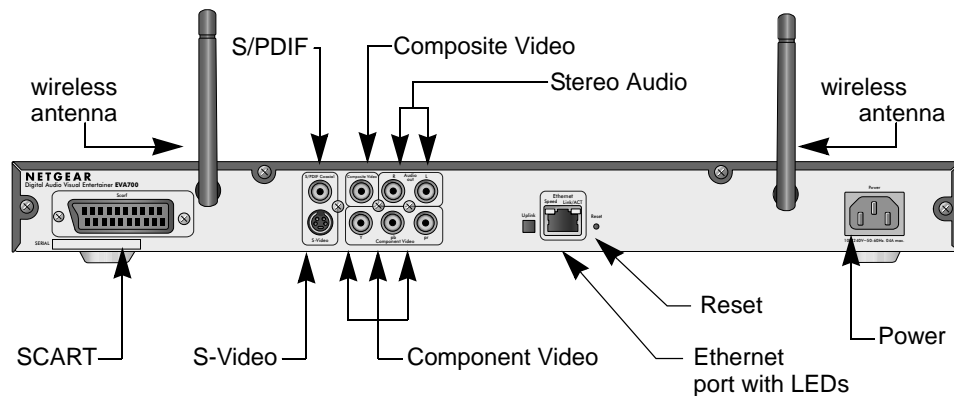


Figure 1-2

The table below describes the connections on the rear panel when viewed from left to right.

Table 1-1. Rear Panel Connectors

Connector	Description
Wireless antennas	The digital entertainer includes two wireless antennas.
SCART	This cable is widely used in Europe and Australia. Though this cable is not included in the package, the digital entertainer is compatible with this cable.
S/PDIF (Sony/Philips Digital Interface) port	This cable does not ship with the product, and you will need to change the digital entertainer settings in order to use it.
Composite Video and Stereo Audio	The composite video is included, and is compatible with most televisions in the United States.
S-Video	The audio cable is included, and is compatible with most televisions in the United States.
Component video ports	This cable is not included, but the digital entertainer is compatible with it.
Ethernet port	10/100 Mbps Ethernet port for connecting the digital entertainer to a wired local area network (LAN).
Reset button	This button resets the digital entertainer.
Power	The digital entertainer includes an internal power supply and universal power adapter.

Remote Control

Use the remote control to navigate menus, and to select and to watch videos, listen to music, or view photos on your television.



Figure 1-3

The table below describes the remote control buttons.

Table 1-1. Remote control buttons




Button	Description
	Power. Turn the digital entertainer off and on.
	Back. Go back to the previous screen.
	Navigation. Use these buttons to navigate the menu selections. When playing a video, you can use the left and right buttons to seek: <ul style="list-style-type: none">• The left button seeks backward by single percentage points in the currently playing stream.• The right button seeks forward by single percentage points in the currently playing stream.

Table 1-1. Remote control buttons













Button	Description
	Play/Pause. Press Play to play each file in sequence in a list of songs or videos.
	Stop. Stop the media that is currently playing.
	Rewind. Rewind to the beginning of the media that is currently playing.
	Previous. Go to the previous item on a list.
	Fast forward. Advance toward the end of the media that is currently playing.
	Next. Go to the next item on a list.
	Select and Play. Press OK to play an individual song or video, and then stop.
	Home. Display the Home menu.
	Information. Display media information.
	Volume. Increase or decrease volume
	Page up and Page down. Scroll up or down.
	Mute. Mute or unmute the sound.
Music	Music menu. Display the Music menu.
Video	Video menu. Display the Video menu to select movies and video clips.

Table 1-1. Remote control buttons

Button	Description
Pics	Picture menu. Display the Picture menu to select photographs to view.
Menu	Settings menu. Display the Settings menu.
0-9	Numbers. Use this for numeric entry, choosing presets, and searching. When you are playing audio or video media, you can seek in 10% increments (such as 10% or 20%) in the currently playing stream.
Caps Lock	Caps Lock. Toggle Caps Lock on or off.
TV Mode	TV Output Mode. Change the output mode (such as NTSC or PAL).
Repeat	Repeat. Repeat a track or the entire media selection. When you are viewing a slideshow Repeat rotates the photo by 90 degrees. To use this feature the digital entertainer must be connected to a server that supports it, such as Windows Media Connect.
Zoom	Zoom. Change the zoom setting for video.

Connecting the Digital Entertainer

If you are using a Windows XP computer without Intel® Viiv™ technology, connect the digital entertainer first, and install the software as explained in “Windows XP Computer Without Intel® Viiv™ Technology” on page 1-8.

If you are using an Intel® Viiv™ technology, then you must update the software *before* you connect the digital entertainer. See Chapter 2, “Intel® Viiv™ Technology”.

The digital entertainer is compatible with the following types of video and audio cables:

- **Video cable and Audio cable:** These two cables are included, and are compatible with most televisions in the U.S.
- **SCART:** This cable is often used in Europe and Australia, and is not included in the package. However, if you have a SCART cable the digital entertainer recognizes it, and you can continue to use these instructions.
- **S-Video, or Component Video:** These cables are not included in the package, and you will need to change the digital entertainer settings in order to use them.

The rear view of the digital entertainer is shown below:

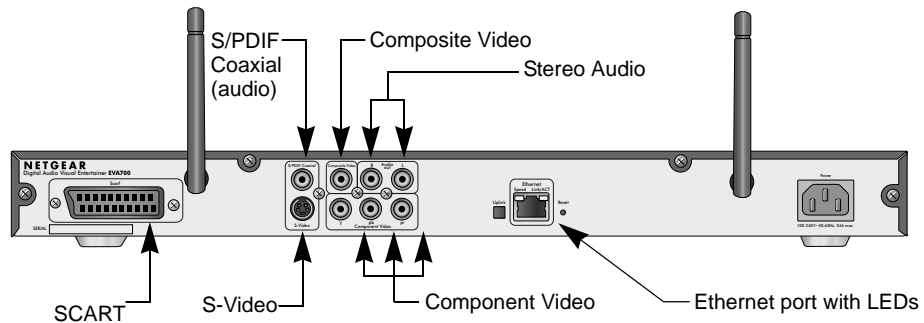


Figure 1-4

Follow these steps to connect the digital entertainer.

1. Connect the digital entertainer to your television set and audio equipment. If you use a digital a/v receiver, use S/PDIF coaxial cable to connect it.
2. Connect the digital entertainer to the router with an Ethernet cable.

3. Connect the digital entertainer power cord and plug it into an outlet.
4. The LED on the front of the digital entertainer lights up to show that it is powered on.
5. Install the two AA batteries into the remote control that shipped with the product.
6. Use the remote control to turn on the television.
7. The television displays “Do you want to use the Viiv network setup?”

If you do not see this message, aim the remote control at the digital entertainer, and push TV mode. You can cycle through the TV modes to get the best display.

Windows XP Computer Without Intel® Viiv™ Technology

After you connect the digital entertainer, you complete the installation in the following order:

1. Use the NETGEAR CD to install the software. See “Installing Software” on page 1-8.
2. Set up the digital entertainer. See “Setting up the Digital Entertainer” on page 1-10.

Installing Software

Follow these steps to install the software on your Windows XP computer.

1. Power on your computer and log in as needed.
2. Insert the NETGEAR CD into the CD drive on the computer.

The main CD page opens.



Figure 1-5

3. Select Install Software and then click Next.
4. Follow the wizard steps to install the software.
5. When prompted, click Next to install Windows Media Connect.



Figure 1-6

6. Follow the wizard steps, and click Finish when you are done.

7. Make sure that Folder Sharing in Windows Media Connect is selected.



Note: Windows Media Connect is set to share the My Music and My Pictures folders (and My Video, if present). You can click Sharing in Windows Media Connect to add or remove shared folders. For more information, see the Windows Media Connect help.

Setting up the Digital Entertainer

The digital entertainer must be set up to work with your network and with Windows Media Connect. If you have a wireless network then you will need to know the SSID (also called the network name), and wireless security settings, if used.

Follow these steps:

1. Turn on the digital entertainer and turn on the television.
A message on the television screen asks if you want to use Viiv network setup.
2. Select no.
3. Use the remote control to select the onscreen option to allow the digital entertainer to use Windows Media Connect.
4. The television shows the network screen, which displays your network connection.
 - If you are using an Ethernet cable, this screen shows router information such as the MAC address.
 - If you are using a wireless connection, see “WiFi Setup” on page 4-5.
 - For help with troubleshooting see “Connecting to the Digital Entertainer” on page 5-2 and “IP Address” on page 5-4.
5. Use the remote control to select the desired media.

Chapter 2

Intel® Viiv™ Technology

To use the instructions in this chapter, you must have an Intel® Viiv™ technology-based PC featuring the Intel® Viiv™ logo below. Otherwise, use the instructions in “Windows XP Computer Without Intel® Viiv™ Technology” on page 1-8.



Figure 2-1

Your digital entertainer has been designed to work with Intel Viiv technology-based PCs, to help you add this device to your network and enjoy content from your PC. To enjoy these features, you may need to update the Intel Viiv software on your PC. For more information about Intel® Viiv™ technology, go to www.intel.com/viiv.

Updating the Intel® Viiv™ Software

Insert the CD that came with your digital entertainer into your Intel® Viiv™ technology-based PC, and follow the on-screen instructions to guide you through the upgrade process. You may be prompted to upgrade the Intel® Viiv™ software on your PC if it has not already been upgraded. If an Intel Viiv software upgrade is required follow on-screen instructions to restart your PC to begin using the new software.



Note: The Intel® Viiv™ software will periodically change and be updated to better meet consumer needs. If the screens you see on your PC do not match the screenshots in this guide, please go to www.netgear.com to get the latest version of this user guide.

Set up your device on the network with Intel® Viiv™ Settings

1. If you have just updated your software, you will be brought to the Intel® Viiv™ settings screen (shown below) after reboot. (See “Navigating to the Intel® Viiv™ settings screen” on page 2-14 to learn how you can navigate to this screen.)

Select Add a device from the Intel® Viiv™ settings screen.



Note: *Set up a network* is the option that is highlighted when you first enter this screen. **DO NOT** select *Set up a network*.



Figure 2-2

2. Select start.

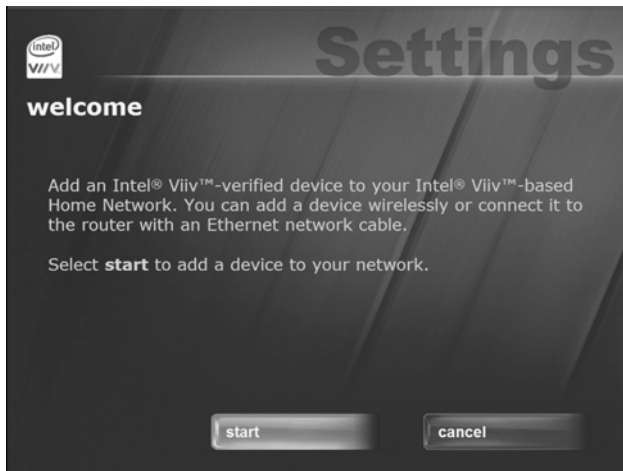


Figure 2-3

3. If you are setting up your device by connecting it to your router with an Ethernet network cable, go to “Wired Ethernet Network Cable Setup” on page 2-4. If you are setting up your device with a wireless connection, go to “Wireless Setup” on page 2-4.

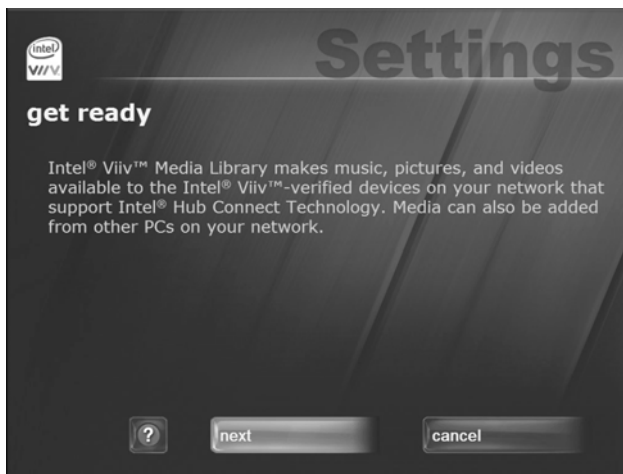


Figure 2-4

Wired Ethernet Network Cable Setup

1. Select connecting it to the router with a Ethernet network cable, and then next.
2. Go to your digital entertainer, and make the audio and/or video connections according to the instructions in “Connecting the Digital Entertainer” on page 1-7. Then, power on the digital entertainer.
3. Go back to your PC. Select next.




Figure 2-5

4. Skip to “Completing the Setup” on page 2-6.

Wireless Setup

1. Select wirelessly, then next. Your PC will check for network equipment.

	Note: If the Intel® ViiV™ software does not find an Intel® ViiV™ technology verified wireless router skip to Section 4.
---	--

2. When you see this screen, go to your device.



Figure 2-6

3. Make the audio and video connections according to the instructions in “Connecting the Digital Entertainer” on page 1-7. Then, power on the digital entertainer.
4. Using the remote control for the digital entertainer, follow the instructions on the television screen until you see the Intel® Viiv™ technology setup option. Select yes.
5. Follow the on-screen instructions until you see a four-digit passcode.
6. Before the ten-minute passcode timer expires, write down the four character passcode, go back to your PC, select next, and enter the passcode. Select next, and continue on to “Completing the Setup” on page 2-6.



Note: If the timer expires before you enter the temporary passcode, restart the device and get a new passcode. You may need to go back to the beginning of “Set up your device on the network with Intel® Viiv™ Settings” on page 2-2 to start again if you cannot successfully enter the new passcode.



Figure 2-7

Completing the Setup

1. Your PC will begin adding the device. Please wait...this may take up to five minutes. You will see this screen listing the device name and type when it has been added. Select next.



Figure 2-8

2. Select media device, and then next.

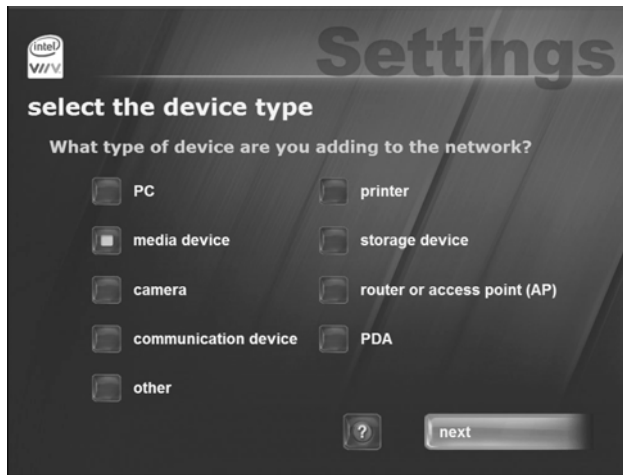


Figure 2-9

3. When you see this screen, your device has been successfully added to the network. Select next to begin building your media library.

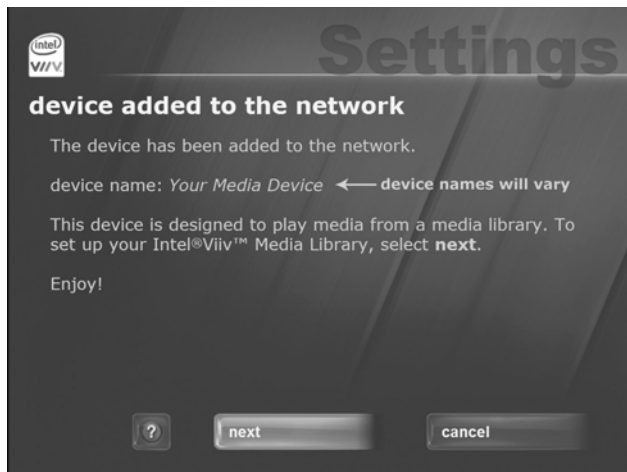


Figure 2-10

Setting up the Intel® Viiv™ Media Library

1. If you have just finished adding your device to your network, you should be brought to this screen automatically.



Figure 2-11

Otherwise, go to “Navigating to the Intel® Viiv™ settings screen” on page 2-14 to learn how you can navigate to this screen. Select next.

2. Read conditions, select agree to continue.

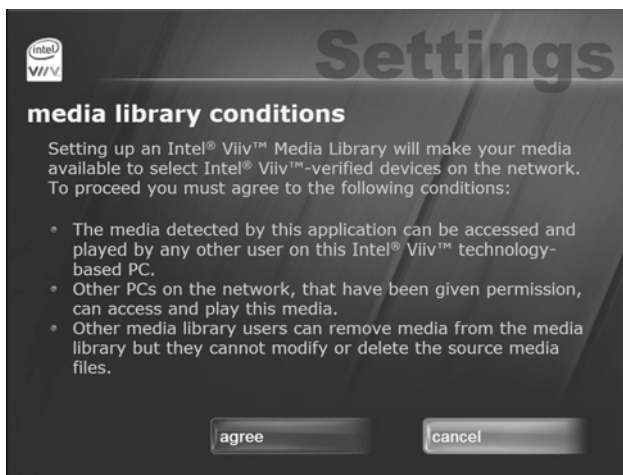


Figure 2-12

3. Select Standard setup.



Figure 2-13

4. When you see this screen, you have successfully completed the setup of your Intel® ViiV™ Media Library.

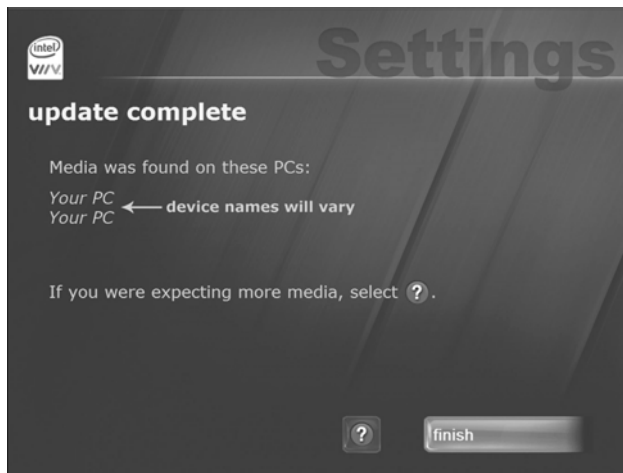


Figure 2-14

Select finish.

Congratulations! Your device is set up!

Completing your wireless setup if you do not have an Intel® Viiv™ technology verified router

Intel® Viiv™ technology verified routers have this logo on them:

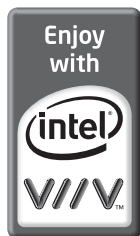


Figure 2-15

1. Refer to the instructions in the Chapter 4, “Media Library and Digital Entertainer Settings” to add your digital entertainer to the network if you do NOT have an Intel® Viiv™ technology verified router.
2. Select View Network Map from the Intel® Viiv™ settings screen on your PC. (Refer to “Navigating to the Intel® Viiv™ settings screen” on page 2-14 for instructions on how to navigate to the Intel® Viiv™ settings screen).



Figure 2-16

3. Choose your device from the icons in the network map (the icon should have a “?” on it).



Figure 2-17

4. Select next.



Figure 2-18

5. Select approved, then next.



Figure 2-19

6. Select media device, then next.



Figure 2-20

7. Select yes, then next.



Figure 2-21

(The Intel Viiv Software may prompt you to set up additional PCs or devices that are connected to your home network)

8. You will see this screen again. Select back to get to the Intel® Viiv™ settings screen.

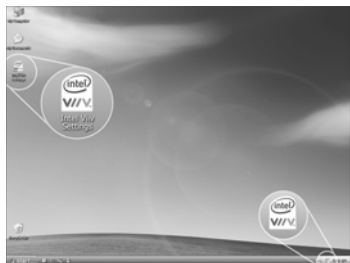


Figure 2-22

9. Select Update Media Library. Go to Section 3 to build your media library.

Navigating to the Intel® Viiv™ settings screen

You can navigate to the Intel® Viiv™ settings window either by selecting the Intel® Viiv™ logo on your desktop or system tray. The logo can also be found in the More Programs area in Windows® XP Media Center Edition® 2005.



or

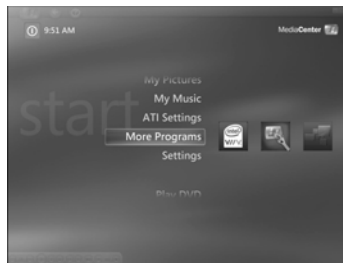


Figure 2-23

Intel® Viiv™ settings screen menu selections



Figure 2-24

set up a network	Guides you through setting up your Intel Viiv technology-based home network ¹ . This menu selection is used when you initially set up your home network ¹ .
view network map	Displays a graphical view of your home network ¹ including the Internet connection (if a connection is available), the router, PCs, and other devices. By selecting a device icon on the map, you can update device status, including granting and revoking media access permissions.
add a device	Guides you through adding a device such as a digital media adapter (DMA). Use this menu selection to add new devices to the home network ¹ after initial set up is complete.
join a network	Guides you through adding an Intel Viiv technology-based PC into an existing home network ¹ .
update media library	Helps you manage your media library and allows you to identify what servers and folders to include in your library.
options	Lets you set options for keeping your Intel Viiv software up-to-date, receiving notifications, turning the Intel® Viiv™ Media Server on or off, showing or hiding the tray icon, and automatically updating services. It also tells you how to get product support for Intel Viiv software and view software version information.
notification center	Lists alerts about issues affecting your media, Intel Viiv software, Intel Viiv technology-based PCs, and home network ¹ .
product overview	Displays an animated overview of Intel Viiv technology and the home network ¹ .

¹Home networking requires additional devices, software or services. Ability to share some content is limited; subject to authorization from the content owner or service provider and network device capability. Verified devices and services will vary; check for desired features/functionality. May require TV tuner card and/or remote which may be sold separately. Instant on/off feature works after initial boot, when activated. System performance will vary depending on your hardware and software configurations. Intel's network setup software currently only supports DHCP ("Always On") and PPPoE broadband connectivity protocols. PPPoA, PPTP and other protocols require use of router manufacturer's network set up software. Check verified router specifications against Internet provider requirements before purchasing. See www.intel.com/go/viiv_info for more information.

Chapter 3

Videos, Pictures, and Music

Media Files and Formats

To play media, the digital entertainer must be connected to the network, and the media server software must be running. The media files can be stored on any computer on the network, or on a CD in the computer's CD drive. The media player locates the media in your library folders.

Table 3-1. Compatible Video and Audio Formats

Compatible File Formats	
Video Formats	<ul style="list-style-type: none">• MPEG-1 VCD format (1.15 Mbps CBR)• SD and HD MPEG-2 up to 15 Mbps (using MPEG Audio, AC3, DTS audio formats)• SD and HD MPEG-4 (OpenDivX3, 4, 5.11, XviD)• SD and HD WMV9 (using WMA audio codec)• AVI audio codec: MP3, AC3, PCM, WMA, Ogg• MOV: 3ivX + MP3, 3ivX + PCM (3ivX converted from supported MPEG-4 video codec using Dr. DivX II for MAC OS)• MP4: MP4V + MP4A (AAC) (only support non-hinted MP4)• Subtitle (MicroDVD, SubRip, Sub Station Alpha, Sami)
Audio Formats	<ul style="list-style-type: none">• MPEG-1 Layer 1 (MP1)• MPEG-1 Layer 2 (MP2)• MPEG-1 Layer 3 (MP3)• Ogg Vorbis (OGG)• AC3 5.1 (AC3)• Microsoft PCM Wave (WAV)• Advanced Audio Coding (AAC, ADIF, ADTS)• Apple MPEG4 AAC Audio (M4A)• Microsoft Windows Media Audio version 1 and version 2 (WMA)• Microsoft Windows Media Audio Professional (WMA Pro)

The media server software is installed from the NETGEAR CD as described in Chapter 1, "Installing Your Digital Entertainer".

Watching Videos

The digital entertainer finds the media files on your computer's hard disk, on other computers, external hard drives, or other storage devices on the network.

To watch a video, follow the steps below.

1. Turn on the television and the digital entertainer.
2. Aim the remote control at the media player and select Video Clips from the main menu displayed on the television.
3. On the Video Clip menu are the following options:
 - **Actor.** Display video clips by actor.
 - **All Video.** Display all video clips.
 - **Folder.** Display folders with video files in them.
 - **Genre.** Display video clips by genre.
4. Select the video that you want to watch.
 - You can use the Zoom button on the remote control to zoom in or out when watching a video.
 - To display information about the video, push **i** on the remote control. This option is only available when a movie is listed or playing.

Viewing Photos

The digital entertainer finds the media files on your computer's hard disk, on other computers, external hard drives, or other storage devices on the network.

Use the Pics button on the remote control, or select Photos Albums from the main menu. The Photo Albums menu shows the following selections:

- **Album.** Show all the digital photographs in a particular album.
- **All Pictures.** View all pictures.
- **Date Taken.** View all photographs with a particular date.

- **Folders.** Show photographs by folder.



Note: The digital entertainer automatically displays one photo after the other. To adjust the length of time each picture is shown for a Slideshow, see “Advanced” on page 4-3.

Playing Music

The digital entertainer finds the media files on your computer’s hard disk, on other computers, external hard drives, or other storage devices on the network.

Some audio files may be stored without information in some fields, such as album or genre. If this is the case, these tracks are listed in a category called “Unknown”. For Internet Radio selections, see “Playing Music from the Internet” on page 3-3.

To play music, follow the steps below:



Tip: The **Repeat** button on the remote control lets you repeat a selection.

1. Go to the Music Jukebox menu.

You can use the Music button on the remote control to go to the Music Jukebox menu, or select Music from the main menu displayed on your television.

2. From the Music menu, choose one of the following selections:

- **Album.** Display albums in alphabetical order. You can play an entire album, or a specific song in the album.
- **All Music.** Display all music files in alphabetical order.
- **Artist.** Display music files by artist in alphabetical order.
- **Folders.** Display the folders containing music files that the media player located.
- **Genre.** Display music files by genre. The genres that are listed depend on the media files that are on your media server or Internet music server. Some formats, such as MP3 include genre. If a music file does not contain a genre, it is listed as Unknown.

- **Playlist.** Display music playlists.
3. Select the music that you want to play.

Playing Music from the Internet

You can use the digital entertainer to play Internet radio stations such as vTuner.

To play an Internet Radio station:

1. From the main menu, select Server Selection.
2. Select Live Internet Radio.
3. Select the Internet radio station that you want.
4. Scroll and select the tracks that you want to play.

Chapter 4

Media Library and Digital Entertainer Settings

This chapter describes how to adjust settings for your media library and the digital entertainer.

- For Intel® Viiv™ technology, see Chapter 2, “Intel® Viiv™ Technology”.
- For Windows Media Connect software, see “Windows Media Connect Software” on page 4-1.
- For the digital entertainer, use the digital entertainer setup menu. See “Media Player Setup Menu” on page 4-2.

Windows Media Connect Software

For Windows XP computers without Intel® Viiv™ technology, the NETGEAR CD installs Windows Media Connect software. You can use it to manage your media library in two ways:

- Allow the media player to have access to your media files.
- Specify which folders contain media files that you want the digital entertainer to use.

You must add the digital entertainer and also use folder sharing in Windows Media Connect in order for the digital entertainer to have access to these files.

After installation you can start Windows Media Connect the same way as other Windows software. From Windows click Start, click All Programs, and then click Windows Media Connect.

To start sharing media files with the digital entertainer, follow these steps:

1. From Windows Media Connect, click Sharing, and then click Add.
2. Click Browse to select a folder, or type the path to the folder in the Folder box.

By default, Windows Media Connect is set to share the folders My Music and My Pictures. If there is a My Video folder it is also shared.



Note: To stop sharing for a folder, remove it from the list of shared folders.

3. Select “Make this content available to all devices.”

For information about the Windows Media Connect Devices and Settings features, see the Windows Media Connect online help.

Media Player Setup Menu

The NETGEAR Digital Entertainer EVA700 has a Setup menu that can be displayed on the television screen. You can use this menu to go to the following screens:

- **Advanced.** View or change advanced settings.
- **IP Config.** View or change the IP configuration.
- **WiFi.** View or change the wireless network settings.
- **Firmware.** View the firmware level, and check for updates.

To view or change these settings, follow the steps below:

1. Use the remote control to go to the main menu on the television screen.
2. Press Menu on the remote control. The Setup button on your television screen is automatically selected.
3. Choose the menu that you want to display.

Advanced

The Advanced menu allows you to view and change the following settings:

- **Screen Saver.** The number of minutes without activity before the screen saver comes on.
- **System Language.** The language setting for the media player screen displays.
- **Encoding Language.** The character set used by subtitle files.
- **Subtitle Language.** Some video files have subtitle tracks in different languages. This selects which one is used by default.
- **Slide Show Timer.** The number of seconds that each picture is displayed.
- **Repeat Mode.** The default setting is Repeat Off.

To change advanced settings follow these instructions.

1. Press Menu on the remote control. The Setup button on your television screen is automatically selected.
2. Select Advanced to go to the Advanced menu.
3. Use the remote control to change the settings.
4. Select one of the buttons displayed at the bottom of the television screen:
 - **Save.** Saves the changes that you made.
 - **Cancel.** Discards the changes that you made.
 - **Restore Factory Settings.** This returns the digital entertainer to its default factory settings, including network settings.



Warning: If you restore factory settings, then you will need to set up the digital entertainer again to run on your network and to access media files.

IP Config

The digital entertainer is set by default to get its IP Address via DHCP. With this setting, the DHCP server on your network assigns the IP Address to the media player, which is a client.

If your network does not use DHCP, you must set up the digital entertainer with a Static IP Address in the range of addresses on your network.

To view or change the IP Configuration, follow these steps:

1. Press Menu on the remote control.

The Setup button displayed on the television screen is automatically selected.

2. At the top of the screen, select IP Config.
3. Push OK on the remote control to adjust the following settings:
 - Wired MAC. The MAC address for the wired network (LAN).
 - Wireless MAC. The MAC address for the wireless network (if present).
 - IP Address.
 - Subnet Mask.
 - Primary DNS.
 - Secondary DNS.
 - Default Gateway. The default gateway address for the network.

At the bottom of the television display there are three buttons: Save, Cancel, and Switch to Manual. You can use Switch to Manual to specify the IP address.

Switch to Manual (Static IP Address)

If your network does not use DHCP, then you must set the IP Address for the media player to be in the correct subnet range for your network.

Follow the instructions below if you want to manually set the IP address (use a static IP address).

1. On the bottom of the IP Config screen, select Switch to Manual.

The Switch to Manual button at the bottom of the screen changes to Switch to Automatic.

2. Use the number buttons on the remote control to enter the IP Address. Use the OK button to save each number and move to the next field.
3. After the IP address is set, enter the subnet mask.

4. Select the onscreen Save button to save your settings.
5. When prompted, press OK on the remote control to reboot the media player.

IP Addresses and Network Connections

The digital entertainer is set from the factory to get its IP Address from a DHCP server. If your network does not use DHCP, you must set up the digital entertainer with a static IP address in the range of addresses on your network.

- If the digital entertainer is set to use DHCP and fails to obtain an IP Address from the server, it will resort to an auto IP address in the range of 169.254.x.x. You can use a static IP address if there is a problem connecting the digital entertainer to the server.
- If the network connection fails, the digital entertainer will time out. Reboot the unit. For more information, see “Physical Connectivity” on page 5-3.

WiFi Setup

The WiFi Setup screen shows the wireless settings for the network that you selected for the digital entertainer to use. To view or change the WiFi setup, follow the steps below.

1. Press Menu on the remote control.
2. Use the remote control to select WiFi at the top of your television screen.

The screen shows Now Using: Wireless network. The drop-down list shows the network currently in use.

3. Use the onscreen Select button to display all available networks, and to choose the one that you want.

The screen shows the following information about the current network:

- **SSID:** The Network Name (SSID).



Note: If your network does not broadcast the Network Name (SSID) then you must enter the SSID manually with the remote control so that the digital entertainer can connect to it.

- **Connection.** Infrastructure or Ad-hoc mode. Infrastructure is the default setting, which works with a router.

- **Security.** The default is None. WEP 64-bit/WEP 128-bit can also be entered if your network uses it.
 - **Passphrase.** You can enter a passphrase, or use the Generate button to create one.
 - **Key.** For wireless networks with WEP, a security key is used.
4. Select Save to save your settings, or Cancel to discard your changes.

Wireless Networks



Warning: For video streaming, a wired connection between the computer and the digital entertainer is recommended. A wireless connection can work well if you want to play music or view photos.

If you are planning to use digital entertainer with a wireless network, check the location where you plan to install it for sources of interference. For best results, find a location free of the following common sources of interference:

- Large metal surfaces
- Microwave ovens
- Aquariums or large fish tanks
- 2.4 GHz Cordless phones

In general, 802.11g wireless equipment can communicate through walls. However, if the walls are made of concrete, or have metal, or metal mesh, the 802.11g effective range will decrease if such materials are between the media player and the wireless router or access point.

Changing the Wireless Network Configuration

For wireless networks you must configure the digital entertainer for the wireless network, and also configure it to work with your media library. You will need to know the network settings such as the SSID (network name). If your network uses wireless security, then you need to know any passwords, passphrases, or keys that are required for access.

Follow these steps:

1. Turn on the digital entertainer and turn on the television.

2. Aim the remote control at the digital entertainer and push Menu.

The Setup menu appears on the television screen.

3. Select WiFi at the top of the screen.

By default the Now Using field shows Wired network.

The digital entertainer shows all available wireless networks in your area in the Available field.

4. Select your wireless network.

5. If your network uses wireless security, enter the settings in the Security field, and if applicable in the Passphrase and Key fields.

- WEP. You can do either of the following:
 - Manually enter a hex or ascii key in the 'Key' box.
 - Enter a passphrase in the Passphrase box and select Generate. The Key box is automatically filled.
- WPA-PSK. Enter the WPA passphrase into the Key box.

6. Select Save to save your settings.

7. Select Reset Network Connection.

The digital entertainer tries to connect to your network.

Firmware

You can view the firmware version and check for updates, even if your computer is not running. The digital entertainer uses your network router to access the Internet. Follow the steps below to check for product updates.



Warning: Do not play media on the digital entertainer during the upgrade.

1. Press Menu on the remote control.
2. At the top of the Setup screen, select Firmware.

The firmware version and file system version are displayed.

3. You can use the following options:

- **Check for firmware update.** The digital entertainer checks via the Internet to see if newer firmware is available. Scroll through the list and select the update that you want. The most recent update includes previous versions.
 - **Roll back firmware.** Change the firmware to an earlier version. The digital entertainer checks via the Internet and displays a list. Scroll through the list and select the firmware version that you want.
4. Select the onscreen OK button to reboot the digital entertainer

Restoring Factory Settings

Restoring the digital entertainer to its default factory settings will erase the network set up and media server selection.



Warning: If you restore factory settings, then you will need to set up the digital entertainer again to run on your network and to access media files.

To restore the factory settings to the digital entertainer, follow the steps below:

1. Press Menu on the remote control. The Setup button on your television screen is automatically selected.
2. Select Advanced.
3. On the Advanced menu screen, select Restore Factory Settings at the bottom of the screen.

Chapter 5

Troubleshooting

This chapter gives information about troubleshooting your digital entertainer.

No Television Display or Poor Display



Note: If the TV Mode that you are using is not the right one for your television, you may not be able to see the menus on the television. To fix this problem, push TV Mode on the remote control. You can cycle through each of the possible TV modes to find and select the correct one.

You can choose S-Video, SCART, Component Progressive, or Component Interlaced.

- **S-Video:** This cable is not included in the package. If your television uses S-Video, you must provide your own cable and set the Video Output to S-Video.
- **SCART:** This cable is often used in Europe and Australia, and is not included in the package. However, if you have a SCART cable the digital entertainer will recognize it.
- **Component Progressive and Component Interlaced:** The digital entertainer is set by default to work with component video cables. To use component progressive you must have a television that supports this technology.

Connecting to the Digital Entertainer

Here are some tips for correcting simple problems that may prevent you from connecting to the digital entertainer.

Problem	Recommended Action
The digital entertainer does not respond to the remote control.	<p>Check the LED on the front panel of the digital entertainer to make sure the power is on.</p> <p>Make sure the television is turned on.</p> <p>The LED on the remote control should flash when you push a button.</p> <ul style="list-style-type: none">• If the LED does not flash, and the batteries are working, then the remote may be faulty.• If the LED does flash, reset the digital entertainer.
The digital entertainer does not find my network.	<ul style="list-style-type: none">• For wireless networks, make sure that the Wireless Network Name (SSID) and security settings of the digital entertainer and media server match exactly.• Restart the media server software, then power cycle the media player.
<ul style="list-style-type: none">• The digital entertainer does not find the Windows Media Connect server.• The digital entertainer is not in the list of devices in Windows Media Connect.	<ul style="list-style-type: none">• Make sure that the computer and the digital entertainer are connected to the same network and turned on.• If you do not use DHCP on your network, you must set the IP address of the digital entertainer in the range of addresses on your network. See <i>IP Address on page 5-4</i>.• If the server where Windows Media Connect is running is a member of a Windows domain:<ol style="list-style-type: none">1. Make sure that you are connected to the domain (either by being on the same network, or by using a VPN connection), and then restart folder sharing in Windows Media Connect.2. If this is not possible, uninstall Windows Media Connect and reinstall it using a local user account. Then set up sharing in Windows Media Connect while logged in with this local user account.

Windows Media Connect Firewall Conflict

If you are using Windows Media Connect and the built-in Windows firewall, the firewall automatically opens the ports needed to communicate with the digital entertainer.

For other firewalls, you might need to open the following ports:

Protocol	Ports
Transmission Control Protocol (TCP)	2869, 10243
User Datagram Protocol (UDP)	1900, 10280, 10281, 10282, 10283, 10284

For security reasons it is better to open the ports only for your private and auto IP addresses. For more information, see the Microsoft website at <http://www.microsoft.com>.

Physical Connectivity

This section explains how to troubleshoot the Ethernet link, wireless link, and the IP address.

Ethernet Link

The digital entertainer expects to be connected to a hub, switch, or router using a standard Ethernet cable. If you want to connect the digital entertainer directly to a PC, either use a crossover Ethernet cable, or press the Uplink button on the back of the digital entertainer so that the button is in a pushed-in position.

If connecting to your network using Ethernet, the link LED on the back of your digital entertainer and on your hub or router should both be on. If not, try the following:

- Make sure that the Ethernet cable connections are secure at the router and at the hub or workstation.
- Make sure that power is turned on to the connected hub or workstation.
- If connecting directly to a PC, make sure that the Uplink button on the back of the digital entertainer is in the correct position.

Wireless Link

Please be aware that wireless data rate and throughput decreases as the distance increases between the Access Point (AP) and the digital entertainer. If you are unable to detect any wireless networks, try the following:

- Your wireless AP (access point) may be too far from the digital entertainer. It may be necessary to move either the AP or the digital entertainer so that they are closer together.
- If you are using a wireless connection between the AP (or wireless router) and the computer that serves the media content, you might also need to move the computer and the AP closer together.
- If your access point is configured to disable broadcast of SSID, the digital entertainer will not be able to detect it. You must manually configure your wireless settings as described in *“WiFi Setup” on page 4-5*.
- The digital entertainer cannot connect to the wireless network while it is connected to the Ethernet network. Disconnect your Ethernet cable.

For detailed information about wireless networks, see the link to this topic listed in *“Wireless Communications:” in Appendix B*.

IP Address

If the digital entertainer does not receive a valid IP address, try the following:

- Verify that a working DHCP server is on your network. PCs on the network should get IP addresses in the correct range.

If the digital entertainer is set to use DHCP and fails to obtain an IP Address from the server, it will resort to an auto IP Address in the range of 169.254.x.x. You can use a Static IP Address if there is a problem connecting to the server.

- If you are using a wireless network, verify that the digital entertainer is associated with the correct SSID. The SSID that is being used can be displayed by following instructions in *“WiFi Setup” on page 4-5*.
- If you are using a wireless network, verify that the WEP settings on the digital entertainer match the settings on your access point. This must match the setting on your access point. For information about WEP, see the link listed in *“Wireless Communications:” on page B-1*.

- If the digital entertainer is set to use DHCP and fails to obtain an IP Address from the server, it will resort to an auto IP Address in the range of 169.254.x.x. You can use a static IP address if there is a problem connecting the digital entertainer to the server.
- If the network connection fails, the digital entertainer will time out. Reboot the unit.

Connecting to a Server

If the digital entertainer cannot find the correct server, try the following:

- Verify that the Media Server software was installed on your PC.
- Verify that the digital entertainer and the PC running the Media Server software are on the same subnet and that they can communicate with each other. In most cases, this means that the first three fields of the two IP address should be the same. Communication can be verified using the Windows Ping utility.

Using Ping

To use ping, follow the steps below:

1. From the Windows toolbar, click on the Start button and select Run.
2. In the field provided, type ping followed by the IP address of the EVA700. Displaying the IP address is described in “*IP Config*” on page 4-4.

ping 192.168.0.2

3. Click OK. You should see a message like this one:

pinging <IP address> with 32 bytes of data

If the path is working, you see this message:

reply from < IP address >: bytes=32 time=NN ms TTL=xxx

If the path is not working, you see this message:

request timed out

4. If you cannot ping the media player, then your network may not be working correctly.

Playing Media

If the digital entertainer cannot play media or music, try the following:

- Check to see if the file is protected. Windows Media Connect is required for Windows XP users to play protected files. See the Microsoft documentation for these products.
- Verify that the file is not corrupt by double-clicking it in the Media Files tab on the Media Server.

Appendix A

Technical Specifications

This appendix describes the dtechnical specifications for the digital entertainer.

Technical Specifications

Network Protocol and Standards Compatibility

Data and Routing Protocols: TCP/IP, DHCP

Power Adapter

North America: 120V, 60 Hz, input

United Kingdom, Australia: 240V, 50 Hz, input

Europe: 230V, 50 Hz, input

Japan: 100V, 50/60 Hz, input

Maximum input current NA: 0.4A, UK, AU: 0.2A, EU: 0.2A, JP: 0.4A

Physical Specifications

Dimensions (H x W x D): 1.5 x 17 x 10 in. (38.1 x 431.8 x 254 mm)

Weight: 4.4 lbs (2.0 kg)

Environmental Specifications

Operating temperature: 32° to 104° F (0° to 40° C)

Operating humidity: 90% maximum relative humidity, noncondensing

Electromagnetic Emissions

Meets requirements of: FCC Part 15 Class B, VCCI Class B, EN 55 022 (CISPR 22), Class B C-Tick N10947

Interface Specifications

LAN: 10BASE-T or 100BASE-Tx, RJ-45

WLAN: 802.11/b/g

Wireless

Radio Data Rates	1, 2, 5.5, 6, 9, 12, 18, 24, 36, 48, and 54 Mbps Auto Rate Sensing
Frequency	2.4-2.5Ghz
Data Encoding:	802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g: Orthogonal Frequency Division Multiplexing (OFDM)
Maximum Computers Per Wireless Network:	Limited by the amount of wireless network traffic generated by each node. Typically 30-70 nodes.
Operating Frequency Ranges:	2.412~2.462 GHz (US) 2.457~2.462 GHz (Spain) 2.412~2.484 GHz (Japan)2.457~2.472 GHz (France) 2.412~2.472 GHz (Europe ETSI)
802.11 Security:	40-bit (also called 64-bit) and 128-bit WEP and WPA-PSK

Appendix B

Related Documents

This appendix provides links to reference documents you can use to gain a more complete understanding of the technologies used in your NETGEAR product.

Document	Link
Internet Networking and TCP/IP Addressing:	http://documentation.netgear.com/reference/enu/tcpip/index.htm
Wireless Communications:	http://documentation.netgear.com/reference/enu/wireless/index.htm
Preparing a Computer for Network Access:	http://documentation.netgear.com/reference/enu/wsdhcp/index.htm
Virtual Private Networking (VPN):	http://documentation.netgear.com/reference/enu/vpn/index.htm
Glossary:	http://documentation.netgear.com/reference/enu/glossary/index.htm

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